	Application No.	Applicant(s)
	10/772,401	KUDO ET AL.
Notice of Allowability	Examiner	Art Unit
•	Vincent E. Kovalick	2629
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	pears on the cover sheet with S (OR REMAINS) CLOSED in 5) or other appropriate commun RIGHTS. This application is su	n the correspondence address this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>applicant's Patent A</u>	Application, Serial No. 10/772,4	01 dated 02/6/04.
2. The allowed claim(s) is/are <u>1-11</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents ha</li> <li>2.  Certified copies of the priority documents ha</li> </ul>	ve been received.	
3. Copies of the certified copies of the priority of		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be sub-	IMENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which gi		
5. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") m	ust be submitted.	
(a) ☐ including changes required by the Notice of Draftspe	erson's Patent Drawing Review	( PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_·	
<ul><li>(b)  including changes required by the attached Examine Paper No./Mail Date</li></ul>		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT		
·		
Attachment(s)		
1. Notice of References Cited (PTO-892)		ormal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948		mmary (PTO-413), /ail Date
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's A	mendment/Comment
Paper No./Mail Date <u>02/06/04</u> 4. Examiner's Comment Regarding Requirement for Deposit	t 8. ⊠ Examiner's S	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	

#### **DETAILED ACTION**

1. This Office Action is in response to Applicant's Patent Application, Serial No. 10/772,401 with a File Date of February 6, 2004.

The Application is found to be in a condition for allowance as set forth hereinbelow.

## Allowable Subject Matter

# 2. Claims 1-11 are allowed.

Relative to claims 1 and 7, the major difference between the teachings of the referenced prior art (USP 6,643,124, Wilk; USP 6,496,174, Kurumisawa et al. and Pub. No. US 2002/0183099, Lee) and that of the instant invention is that said referenced prior art **does not teach** a display apparatus including a plurality of display panels comprising: a data driver which applies a tone voltage to display elements of said display panels, said tone voltage corresponding to display data from an outside processor, and a scan driver which selects, on each line basis of said display panels, said display elements to which a tone voltage should be applied, wherein said data driver is common to said plurality of display panels, and wherein said data driver applies said tone voltage to display elements of some of said plurality of display panels, said tone voltage corresponding to said display data from said outside processor, and further applies a tone voltage to display elements of the other display panels of said plurality of display panels, said tone voltage corresponding to black data or white data; or, said tone voltage corresponding to processor.

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Regarding claim 10, the major difference between the teachings of the said referenced prior art and that of the instant invention is that said referenced prior art **does not teach** a display apparatus including a plurality of display panels comprising: a generation circuit for generating a plurality of tone voltages; a selector for selecting a tone voltage from among said plurality of tone voltages, and applying said selected tone voltage to display elements of said display panels, said tone voltage corresponding to display data from an outside processor; and a scan drive for selecting, on each line basis of said display panels, said display elements to which said tone voltage should be applied, wherein said selector applies said tone voltage to display elements of some of said plurality of display panels, said tone voltage corresponding to said display data from said outside processor, and applies to tone voltage to display elements of the other display panels of said plurality of display panels, the luminance of said tone voltage being relatively low of said plurality of tone voltages, and wherein said scan driver selects said display elements of said other display panels during a vertical blanking time-period of some of said plurality of display panels.

Regarding claim 11, the major difference between the teachings of the said referenced prior art and that of the instant invention is that said referenced prior art does not teach a display apparatus including a plurality of display panels comprising: a data driver for applying a tone voltage to display elements of said display panels, said tone voltage corresponding to display data from an outside processor, and a scan driver for selecting, on each line basis of said display panels, said display elements to which said tone voltage should be applied, wherein said data driver is common to said plurality of display panels, and applies said tone voltage to display elements of some of said plurality of display areas, said tone voltage corresponding to said

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display data from said outside processor, and further applies tone voltage to display elements of the other display areas of said plurality of display areas, said tone voltage corresponding to black data or white data, and wherein, said scan driver selects said display elements of said other display areas during a vertical blanking time-period of some of said plurality of display areas.

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U. S. Patent No.	6,643,124	Wilk
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# To Respond

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent E. Kovalick whose telephone number is 571-272-7669. The examiner can normally be reached on Monday-Thursday 7:30- 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vincent E. Kovalick October 11, 2006

BIPIN SHALWALA
SUPERVISORY PATENT EXAMINER
FECHNOLOGY CENTER 2600